BRUHAT BANGALORE MHANAGARA PALIKE

Detailed Estimate for :- Drilling of borewell, providing granite benches, senior citizen shelter and other deelopment works at Defence Layout Park, in Ward No.11, Vidyaranyapura.

Estimated cost Rs.10.00 Lakhs

Job Code :

Sl. No	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
	SUB ESTIMATE: DRILLING OF BOREWELL								
1	Carrying out geophysical survey Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand Pump, MWS or PWSS by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation, Geophysical investigation of existing Ground Water in the vicinity, its quality, quality & acceptability of the users indicating the location of the site, recommended depth of casing pipe required to seal the tope unconsolidated formation including an extra depth 1.0 metre in consolidated formation for aquifr proposed to be tapped probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc., (PRED SR P-37, I-9.4)					NO	1600.00		1600.00
							Per No.		
2	Sinking of Borewell of 165 mm clear using fast								
	Up to 50mtr depth					50.00	265.00		13250.00
							Per Mtr		
	Above 50 mtr upto 100 mtr					50.00	345.00		17250.00
							Per Mtr		
	Above 100 mtr upto 150 mtr					50.00	380.00		19000.00
							Per Mtr		
	Above 150 mtr upto 200 mtr					50.00	440.00		22000.00
							Per Mtr		
	Above 200 mtr upto 250 mtr					50.00	480.00		24000.00
							Per Mtr		
	Above 250 mtr upto 316 mtr					65.00	540.00		35100.00

				Per Mtr		
3	Providing and fixign PVC casing pipe of dia 30 cms of thickness 4 mm inc;uding loaidng and unloading transporation etc., complete	25.00	1050.00		26250.00
			Per Mtr		
4	Providing of ISI mark 175 mm nominal bore medium black ERW casing ipe of 5mm thick black electric continous welded mild steel tube material confirming to IS 1387/1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mtrs both ends threaded confirming to IS 554 / 1985, one and fixing with a socket and the other end with a plastic protection end (inclusive of all taxes) PRED SR P-II, I-53A	42.00	1325.00		55650.00
			Per Mtr		
5	Providing 165 mm dia MS collar, PRED SR P-II, I-55	6.00	150.00		900.00
			Per No.		
6	Supply and delivery at site brand new Texmo / Innoval / Lubi / Sabar / Atalanta / Calamal / waterman / Radha make suitable vertical installation in 150mm dia. Borewells comprising of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for operation of 3Ph., 50Hz. 380/44 volts AC supply fitted with required accessories such as suction. casing, suction strainers, sand guard. Non return valve etc., complete. The pupm and motor shall form an intergal unit with all the required fittings. (As per rate approved by KUWS & DB wef 16-05-2006) 7.5 HP 30 stage	1.00	39300.00		39300.00
			Per No.		
7	Providing and fixing in galvazed/mild steel tubed (Heavey class as per IS 1239 part-1990) 50 mm dia nominal bore with all fittings including cost of all material labour charges. HOM of equipment and testing complete as per specification PWD SR Bangalore Circle 2010-11, P-79, I-13.15	302.00	402.75		121631.00
			Per Mtr		
8	Supply Heavy Duty, galvanized / mild steel color suitable for 32 mm dia nominal bore galvanized / mild steel tube. (BWSSB approved rates)	42.00	80.00		3360.00
			Per No.		

9	Supply of galvanized / mild steel union suitable for 32 mm dia nominal bore galvanized / mild steel tube (BWSSB Approved rates)	1.00	372.00		372.00
			Per No.		
10	Supply of Galvanized/mild steel elbow suitable for 32 mm dia nominal bore galvanized / mild steel tube (BWSSB approved rates)	2.00	190.00		380.00
			Per No.		
11	Supply of Non return valve suitable for 50mm nominal bore galvanized / mild steel tube PWD SR P-XVII, I-466	1.00	800.00		800.00
			Per No.		
12	Erection of pumpset including aligning and balancing with all necessary erection material and labour including supply and erection of two pair of supporting clamps borewell cap, cable and water tight gland cable protectiors, bolts, nuts, etc., involved in the job. (PHE, SR rate)	1.00	1710.00		1710.00
			Per No.		
13	Supplying and fully automatic star-delta unit push with suitable wires, 3 contrsctors, one adjustable thermal timer mounted on a common base plate head in steel enclosure for use on 400/440 volts 3 phase and wired after to the existing wooden board for motor, PWD Elec SR P-XIV, I-8a(2)	1.00	5330.00		5330.00
			Per No.		
14	Supplying and fixing using necessary wires over an existing panel board a single phase preventor suitable for motor upto 20HP capacity. PWD Elec. SR. P-XIV, I-9	1.00	735.00		735.00
			Per No.		
15	Supplying shunt capacitors conforming to IS 2834,3 phase 400/440 volts grade capacitor in KVAR rating, Nos, PWD Elec SR P-24-I-15©	1.00	504.00		504.00
			Per No.		

16	Fabricating supplying and mounting 1200x900x350mm MS box made out 18 SWG suitable for floor /wall mounting, fully weather proof with double slanted top as per drawing with providion for better heat dissipation provided with hinged front cover with clear opening of 100x100mm, protected by glass cover clamped to the door on EB meter sode to facilitate meter reading, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box shoubl be finished with approved colour enameled metal paint etc., complete PWD Elec SR P-42, I-38C	1.00	10136.00		10136.00
			Per No.		
17	Supplying and fixing miniature circuit breakers/Isolatorss on existing MCB distribution boards using necessary fixing materials and wiring complete as required PWD Elec SR P-37, I-FC	1.00	975.00		975.00
			Per No.		
18	Supplying and fixing angle iron work fabricated out of MS angle iron and MS flat with bolts, nuts, washers etc., and painted with 2 coats of red oxide and other two coats of approved paint PWD Elec SR P-41, I-37(a)	1.00	240.00		240.00
			Per No.		
19	Grouting angle iron (P-32, I-11)	2.00	140.00		280.00
			Per No.		
20	Supplying and fixing regular MCB distribution boards on wall/wood board/flush imounting using required clamps, bolts, nuts etc with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with power coated painting etc complete PWD Elec SR P-37, I--13f(e)	1.00	560.00		560.00
21	Supplying and replacing copper workshop flexible card or plastic TC wire (As per approved rates Superintending Engineer, RDED Engineering Section, Bangalore vide letter No.2.5sqm flat 3 core copper wire.	300.00	145.00		43500.00
			Per Mtr		
22	Supplying and replacing one of the fuse cutouts having porcelain base of approved quality on the existing wooden blockand wired complete (P-44, I-38© 63 amps.	3.00	132.50		398.00

			Per No.		
23	Supplying, fixing, wiring, earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90mm thickGI pipe 2.5 mtr long buried in apit. The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per IISI specification 7.3.3 of IS 732 using 120mm dia bolt, nuts, washers and chechnus etc, complete the pipe shall have 16 through of 122mm dia PWD Elec SR P-68, I-1	1.00	1950.00		1950.00
			Per No.		
24	Supllying and LTUG cable having aluminium conductor PVC insulated sheathed, galvanized, stell wire/ steel tape amounted cable with PVC outsheathing 1.1KV class (conforming to IS 1554) PWD Elec SR P-68&69,	30.00	150.00		4500.00
			Per Mtr		
25	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete PWD Elec SR P-70, I-6b	20.00	50.00		1000.00
			Per Mtr		
26	Supplying and fixing of calss A GI pipe on pole / wall / drain crossing with necessary clamping arrangements for UG cable of 1.1KV class (P-59, I-13(a) 40mm upto 16 sqm	3.00	370.00		1110.00
			Per Mtr		
27	Electric Deposit	1.00	10000.00		10000.00

28	Manufacturing, Providing and Fixing a Gazeboo (of size 22 feet Dia-Approximate) made of MS Round pipes of 6 inches diameter of 12 SWG for pillars 10 feet in height, in which 8 ft will be above the ground level and 2 feet embedded in cement concrete and provided with MS plate on top of the pillars. MS I section 100x50mm of heavy guage (for rafters) in placed between the poles on top of the flush plate. Also MS anglular tubes of 100x40mm are to be mounted vertically on all 8 pillars. MS angular tubes of 40x20mm reepers are welded horizontally in between the rectangel tubes for a distance of 1 feet approximately so as to get the desired octoganal shape, for fixing approved guality corrugated Mangalore tiles on the roof (2 layer as per design) Flat design tiles and pointed with cement mortor. The Gazebo is to be fixed on a suitable platform, thecentral height being 15 to 16 feet and including allround bed concrete 1:4:8 and size stone masonry foundation as per the aprroved design, drawing, specifciation. The MS pipes are to be fixed with CC 1:1.5:3 and the flooring is constructed with classic Eurocon tiles placed on cement concrete 1:4:8 and tampered with fine red earth, with cement slurry. The work includes earth work excavation, concreteing, masonary work and cost of all materials, flabour, equipments, machinery wioth all lead and lift, loading and unloading etc., complete including two coats of approved quality special spry paint over one coat of primer and executing the work as per the directions of the Engineer in charge									
						1	388112.00	NOs	388,112
29	Providing and fixing polished gray granite slab benches of size 5' width of seating slab with bottom slab of 75mm thick with 1.50 feet with back rest slab of 50mm thick with 1.50 feet depth side and slab of 100 mm thick 2.5 feet height including bull nozing of all edges including fixing in ratio of 1:2:4 including loading and unloading with all lead and lift etc., complete and executing the works as per direction of engineer incharge								
		5.00				5.00			
						5.00	10550.00	Nos	52,750
									904,633.00
								KRIDL Charges 10%	**90,463.00**

3	Providing and fixing dust bins as per designs, drawing specification and direction of Engineer in charge of	1.00	4800.00	Nos	4,800.00
	Miscellaneous and unforseen charges etc L.S				104.00
	(Rupees ten lakhs)				**1,000,000.00**

Certificate

1. The work spot has been inspected and the work is found necessary
2. This estimate is prepared as per C.S.R. of 2013-14
3. This provisions were made in this estimate are necessary and adequate
4. This work cormes under B.B.M.P limits

Asst. Engineer
BBMP

Asst. Executive Engineer
BBMP
ಯೋಜನಾ ವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ
ಬೆಂಗಳೂರು

Executive Engineer (P)
Yelahanka Zone, BBMP
ಯೋಜನಾ ವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ
ಬೆಂಗಳೂರು

TECHNICALLY SANCTIONED FOR Rs. 10.00 Lakhs
Rupees Ten Lakhs
Under P-0088
Registered
Subject to conditions contained in
enclosed memo EE( ) No.
Dt. Estimate A/S Sanctioned
BBMP/EE(P)/Y21TS/08/13-14
Dated 13-01-2014 Rs. 10.00 Lakhs

AE 13/01/14

Executive Engineer

ADMINISTRATIVELY SANCTIONED FOR Rs. 10.00 Lakhs
Rupees Ten Lakhs
Under P0088
Registered as EE( ) No.
Subject to conditions contained in
enclosed memo EE( ) No.
Dt. Estimate A/S Sanctioned
Addl Comr (PMK) AS 747/13-14
dated 4-1-2014 Rs. 10-00 Lakhs

Addl Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92